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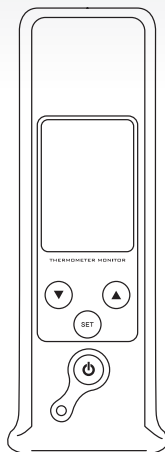
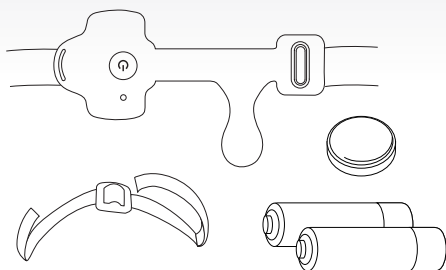
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BTM-D1D Wireless Body Temperature Monitor User Manual



BTM-D1D includes:

- ReceiverX 1
- Armband X 1
- AAA battery X 2
- 3 Volt lithium cell battery (CR2032) X 1
- Arm-belt X 1
- Assisted arm belt X 1
- Quick Guide Card X 1
- Manual X 1
- Warranty CardX 1

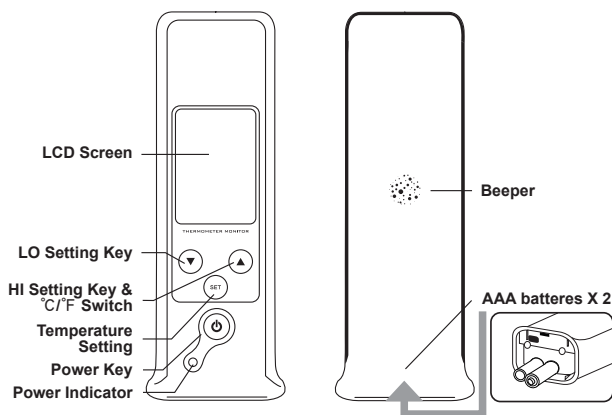
General Body Temperature Reference

Ear Temperature	35.8°C~38.0°C
Armpit Temperature	34.7°C~37.3°C
Oral Temperature	35.5°C~37.5°C
Anus Temperature	36.6°C~38.0°C

Introduction of BTM-D1D

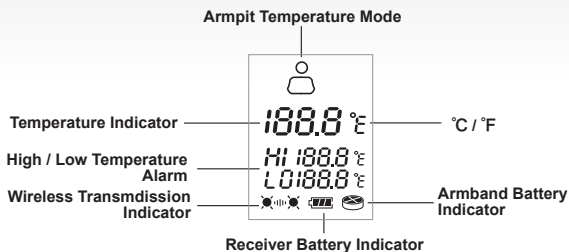
Wireless Body Temperature Monitor

(1) The instruction of the keys and functions:



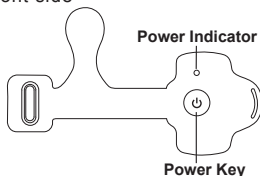
- **Power key:** To turn on/off the Receiver.
- **Temperature setting key:** To set up the Hi/Lo temperature alarm.
- **Hi setting key:** To increase the Hi temperature alarm setting and to switch the °C/°F.
- **Lo setting key:** To decrease the Lo temperature alarm setting.
- **Power indicator:** To indicate the status of power.

(2) The LCD screen of the Receiver illustration:

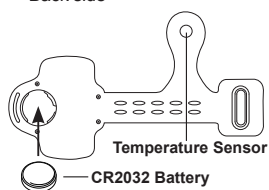


(3) The armband:

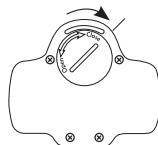
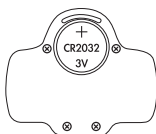
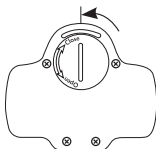
Front side



Back side



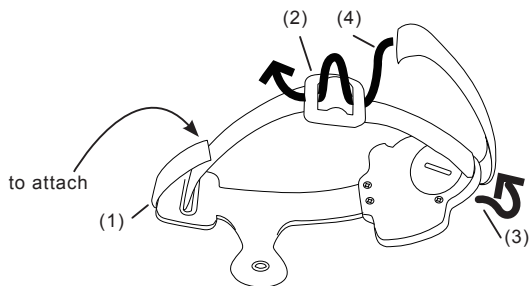
Battery Installation:



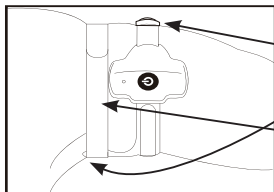
Note:

1. This product is made by FDA Grade Silicone. Clean the surface of armband with wet tissue. Do not immerse the armband into water.
2. Recommend to use CR2032 battery manufactured within 2 month. If use poor quality or years-old CR2032 battery, it may easy to become powerless when power-on which means the battery can not supply power normally.

How to assemble the armband:



How to wear the armband:



1. Wear the armband on the left arm.
2. Adjust the belt at the proper tightness.
3. Move the temperature sensor under the armpit.
4. Wear the assisted arm belt for fixing the sensor under the armpit.

Operating Instructions

(1) How to use the armpit temperature function:

POWER ON _____

- Step 1: Wear the armband on the left arm and adjust the belt at the proper tightness. Move the temperature sensor under the armpit.
- Step 2: Press the "Power key" on the armband for 2 seconds until the green light flash and it will flash every 4 seconds to indicate the device is working.
- Step 3: Press the "Power key" on the Receiver for 2 seconds until it beeps and the LCD screen display the armpit temperature which means the wireless transmission is connected.
- Step 4: Read the temperature on the LCD screen to check the change of the patient's temperature. It takes 3-5 minutes to have stable temperature monitoring of armpit. The temperature sensor will update armpit temperature every 12 seconds to be displayed on LCD screen.

POWER OFF _____

- Step 1: To turn the Receiver off, press and hold the "Power key" for 2 seconds until it beep to turn off the LCD screen of the Receiver.
- Step 2: Remove the armband from the patient's arm and press "Power key" on the armband until the red light flashes which means it is turned off.

Remark:

1. When power on, the green light only flashes once but not flashes every 4 seconds and disconnected, please change the new battery.

2. If outside of signal area and then result in disconnection, please remove the receiver close to the armband within 3 min and then the signal will be connected.
3. Any abnormal occurred when turn on the armband, please check and change the battery.
4. Recommend turning on both Receiver and Armband power within 20 seconds for connection, otherwise it will automatically power off.


(2)How to set the temperature alarm:

Before using the body temperature monitor function, the operator may need to set both high and low temperature alarm figures according to the patient's general armpit temperature status. When the temperature is out of the setting range, the Receiver will start a series of "Beeps" alerting the caregiver to take appropriate actions. The alarm setting procedures must be done when the armband is on. Follow the steps below:

Step1: High temperature setting: Press the "Temperature setting key" for 2 seconds, the Receiver will beep twice to get into the temperature alarm setting mode. The LCD screen flashes "HI" and the original figures will be displayed.

Step2: Press "Temperature Setting Key" to adjust the alarm temperature setting. The temperature standard is 0.5°C a time such as 38.5°C to 39°C then to 39.5°C and so on, then press "Temperature setting key" to complete the setting.

Step3: Low temperature setting: low temperature setting starts automatically

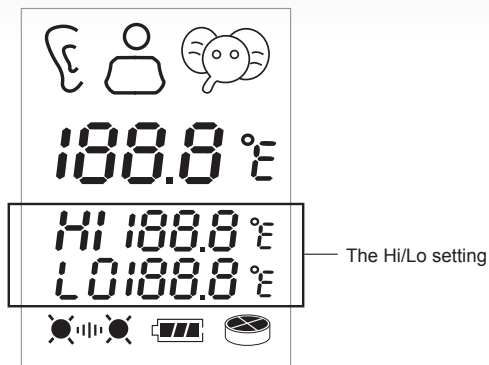


after finishing high temperature setting. Please press “Temperature Setting Key” when “LO” is flashing, and then adjust the low temperature setting. The temperature standard is 0.5°C a time such as 34°C to 34.5°C then 35°C then 35.5°C and so on and then press “Temperature setting key” to complete the setting.

Remark:

- The range of setting: The default figures of the temperature alarm setting are: Hi: 38°C(104°F) and Lo:34°C(96°F). The high temperature alarm range from 36°C to 40°C(96°F-104°F). The low temperature alarm range from 32°C-35.5°C(89°F-96°F).
- Faulty-prevention mechanism: If the above steps setting are not completed, the Receiver will return to the temperature monitoring mode without changing any setting within 10 seconds.
- Priority alarm processing: The product is designed to process the alarm situation prior to the High/Low temperature alarm setting mode, or any other operations. Without saving any setting if not pressing “Temperature setting key”, the user is better off to operate the temperature alarm setting with the full power supply.
- Please re-set the Hi/Lo temperature alarm figures after replacing the batteries. The Receiver will take the default as the temperature alarm setting after battery replacement.


(3) Check the Hi/Lo temperature alarm setting:



(4) The Abnormal temperature alarm:

Alarm: The Hi/Lo temperature alarm setting on the LCD screen will be flashing on the "Hi" or "Lo" if the reading of the patient is out of the temperature alarm setting range. That is, the "Hi" and its figures are flashing. The Receiver will beep every 2 seconds to inform the caregiver to take appropriate action.

Anti-sleepyhead mechanism: The Receiver will check every 10 minutes the temperature of the patient if it is still in the temperature alarm setting. The Receiver will



keep noticing the caregiver to take appropriate action via the constant beeps if the patient's temperature is out of the temperature alarm setting. Press any key on the Receiver to stop the beep alarm.

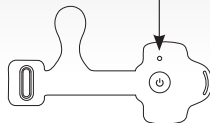
Remark:

- Please keep checking the patient's temperature when alerting, even some action to the patient had been done. For not triggering the alarm every 10 minutes, the caregiver can set the Hi/Lo temperature alarm a little bit higher/lower, and then result the setting after the patient is getting better.
- In case that the temperature, when power on, lowers the low temperature alarm setting then starts the alarm system, this product will trigger the low temperature alarm system after normal temperature higher than the low temperature setting by 0.5°C.
- It may cause low temperature alarm when the armband becomes loose. Please check immediately the patient and adjust appropriately the arm-belt.

The Instructions of Indicators



(1) Armband Power Indicator:

Light	Status	Flashing
Green	Power On	Every 4 seconds
Red	Power Off	One blink then power off
Orange	Low Volt	Every 4 seconds when power on
Red	No Signal	Every 10 seconds when power on





(2) Battery Power Supply Alarm

The Low Battery Alarm of Receiver:

Power Supply Status	LCD Screen Battery Display	Alarm Siren
Full power supply	Full battery on Receiver Battery Indicator 	No siren
Low power supply	Flashing on Receiver Battery Indicator 	Beeps twice every 10 seconds

The Low Battery Alarm of Armband:

Power Supply Status	LCD Screen Battery Display	Alarm Siren
Full power supply	Full battery on Armband Battery Indicator 	No siren
Low power supply	Flashing on Armband Battery Indicator 	Beeps twice every 10 seconds

(3) Poor Signal Warning

The LCD shows “- - °C” when it is failed to receive the signal from the Armband after turning on the Receiver, it will beep twice every 10 seconds.

Please turn on again the Receiver and the Armband to re-set signal transmission.

Status	Temperature Indicator	Alarm Siren
Poor signal	— — °C	Beeps twice every 10 seconds



(4) Solution for Poor Signal:

Within 3 minutes if disconnection occurred, please remove the Receiver close to the armband while waiting for the screen in monitoring mode. Otherwise the armband will automatically switch off after 3mins. If the problem can not be solved from the above suggestion, please restart both Armband and Receiver again.

(5) Error Solution:

LCD Screen	Meaning	Solution
E r 0	Connection Abnormal	System breakdown, needed repair

Importance Precautions

1. Please follow the manual to operate this product carefully.
2. This product is designed to put the armband on the left arm.
3. This product is designed to function properly under the conditions of the surrounding temperature between 15°C to 40°C, and the relative humidity of 95% or lower. Please do not use this product when temperature and humidity is out of the ranges mentioned above.
4. The transmission distance of this product is approximately 20 meters without any interference.
5. The armband has passed the Biocompatibility Tests; however, if found allergic to the armband, please stop using it.
6. Please do not use this product in the hospital in case the signal transmission would interfere with some electronic medical equipment.
7. The main function of this product is to alert the caregiver that the patient is out of the abnormal temperature range. The measurement result, however, could sometimes be influenced by the surrounding temperature. The measurement result is ONLY for reference, Please seek qualified physician's help, if necessary.
8. Please pay much attention on children with using this product. Please also keep it out of reach of children and place it on a higher position.
9. Please do not use any rechargeable battery; or mix of new and used batteries. Please take out the batteries if the Receiver and the Armband will not be operated for a longer time.
10. Please use the products after it has been placed under the normal room temperature for 30 minutes.
11. Do not use this product directly after exercising, bathing, having meals, and taking a walk, etc. Wait 30 minutes before using after all physical activity.
12. The patient's armpit should be cleaned and dry before using this product.
13. Please use the soft dry cloth to clean this product to avoid scratching. Do not wash it with water or any other cleaner.

Q & A

Q: The armpit temperature monitored is much higher or lower than normal?

A: Please check the possible situation as follows:

1. The patient may have a fever or the temperature may be too low.
2. The Temperature Sensor does not reach the armpit or the armband is not tight enough.
3. Low power supply: please change batteries.
4. Make sure you are not using this product directly after exercising, bathing, etc, please put the product for 30 minutes at room temperature and then wipe it up.
5. Possible interference, please turn the product power on again.
6. Out of order (contact customer service immediately).

Q: If allergy is evident after using this product?

A: Please stop using it.

Q: Failure to use the armband?

A:

1. Please read carefully the manual again.
2. Contact the seller.

Q: Cannot turn on the Receiver?

A:

1. Please read carefully the manual again.
2. Check the battery well to make sure batteries are in it, or please change new batteries.
3. Batteries may be not installed correctly.
4. This product may be out of order, please call to customer center.

Q: The armband power indicator flashing with green and red light?

A:

1. Press the power key of armband, the red light will light on; and then press the power key again, the green light will turn on. And then press the power key for 2secs until red light is on to power off. Now re-start the Armband. (Press the power key for 2 seconds until green light is flashing.)
2. Replace the battery and start the device again.

Technical Specifications

Receiver		Armband
Power supply	Two AAA batteries Up to 80-100 hours of constant operation	One 3 Volt lithium cell battery (CR2032). Up to 72-96 hours of constant operation. *If under airwave interference environment, the battery life will be shortened.
Dimensions(mm)	130H X 50W X 32D	136H X 85W X 9.5D
Weight	81g	25g
Operational surrounding temperature range	15~40°C	
Temperature transmission frequency	Every 12 seconds	
Valid temperature alarm ranges	HI : 36-40°C (96-104°F) LO : 32-35.5°C (89-96°F)	
Transmission frequency	2.4 GHz	
The technique of the Radio modulation	FSK	
Valid transmission distance	20 meters	
The precision of the Armpit temperature	±0.1°C	

This product is certified by CE 0434 & FCC

EN60601-1 safety regulation for medical device

EN60601-1-1

EN60601-2 compatibility regulation for medical device

EN12470-4

EN12470-5

ISO 13485:2003

ISO 9001:2000

ISO 10993-1:2003

NOTE:

The changes or modifications are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.